

**SYSTEM AND METHOD FOR
RECOVERING SYSTEM TIME IN DIRECT
SEQUENCE SPREAD SPECTRUM COMMUNICATIONS**

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ABSTRACT OF THE INVENTION

A sleep control system and method are provided that permit a reference clock and the direct sequence spread spectrum (DSSS) modem in a mobile station receiver to be turned off and turned back on at arbitrary points in time while still maintaining accurate base station system time. Accurate timing is made possible through a number of techniques including precise initial calibration using a rising edge/falling edge averaging system, determining the sleep clock and reference clock frequencies, and the determination of the frequency drift of the sleep clock that occurred during the previous sleep interval.

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